

PUYALLUP RIVER BASIN

1

12098000 MUD MOUNTAIN LAKE NEAR BUCKLEY, WA

LOCATION.--Lat 47°08'27", long 121°55'48", in NE 1/4 NE 1/4 sec.17, T.19 N., R.7 E., Pierce County, Hydrologic Unit 17110014, on left bank of reservoir just upstream from Mud Mountain Dam on White River, 5 mi southeast of Buckley, 5.6 mi downstream from Clearwater River, and at mile 29.7.

DRAINAGE AREA.--400 mi².

PERIOD OF RECORD.--October 1943 to current year. Daily contents at 0800 hours only October 1944 to September 1987. Monthend contents only October 1943 to September 1944, published in WSP 1316. Prior to October 1970, published as Mud Mountain Reservoir near Buckley.

GAGE.--Nonrecording gage. Datum of gage is sea level (levels by Corps of Engineers).

REMARKS.--Lake, for flood control, is formed by earthfill dam. Embankment completed and storage began on small scale in 1942. Capacity, 106,000 acre-ft between elevations 895 ft, invert of outlet tunnel, and 1,215 ft, spillway crest. Storage is dissipated as soon after a flood as is possible, without creating damaging flows downstream, in order to have the maximum capacity available for any following flood which might develop.

COOPERATION.--Records of lake elevations and capacity table furnished by Corps of Engineers (revised by U.S.G.S. below 917 ft). Table uncertain below about 970 ft, due to siltation. Mud Mountain Lake is considered to have no appreciable storage below 917 ft.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed since dam was completed, 89,245 acre-ft Feb. 9, 1996, elevation, 1,196.1 ft; no contents at times in some years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 24,325 acre-ft Aug. 24, elevation, 1,089.1 ft; no contents many days during the year.

RESERVOIR STORAGE (ACRE-FEET), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY OBSERVATION AT 0800 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	423	.00	.00	124	.00	.00	168	275	200	161	114	8238
2	.00	.00	.00	119	106	.00	159	220	194	162	218	4668
3	.00	.00	.00	114	101	.00	145	195	218	158	1976	1816
4	.00	.00	.00	119	133	.00	138	179	171	153	3453	317
5	.00	.00	.00	141	160	.00	135	164	160	163	4809	186
6	.00	.00	.00	147	.00	96	136	164	166	160	5903	133
7	.00	.00	96	138	114	98	140	156	162	153	7224	107
8	.00	.00	97	130	.00	334	130	156	164	146	8546	100
9	.00	.00	96	124	.00	1041	126	158	184	154	9824	102
10	.00	.00	95	119	.00	1054	125	155	187	153	10969	102
11	.00	.00	94	116	.00	876	132	154	201	154	12208	102
12	.00	.00	93	111	.00	701	134	166	273	183	13589	105
13	.00	.00	92	109	.00	798	130	200	294	---	14538	107
14	.00	.00	94	109	.00	.00	126	201	241	---	15630	108
15	.00	.00	98	107	.00	110	122	279	212	---	16815	103
16	.00	.00	109	103	.00	115	124	342	196	123	18033	109
17	.00	.00	107	102	.00	112	137	235	192	118	18633	107
18	.00	.00	100	104	.00	119	138	194	177	116	20015	102
19	.00	.00	100	105	.00	191	134	172	177	114	20553	100
20	.00	.00	97	105	.00	157	130	166	178	123	21175	98
21	.00	.00	96	107	.00	142	126	162	187	124	21886	96
22	.00	.00	96	108	.00	133	126	179	191	120	22460	104
23	.00	---	---	107	.00	133	131	241	185	127	24082	98
24	.00	.00	100	104	.00	126	137	362	169	130	24325	102
25	.00	.00	---	102	.00	135	143	294	165	128	23879	102
26	.00	.00	102	102	.00	143	162	264	154	124	23479	103
27	.00	.00	111	.00	.00	138	190	249	150	123	23044	100
28	.00	.00	114	.00	.00	146	199	221	199	126	20771	96
29	.00	.00	109	.00	---	146	170	204	179	120	18000	92
30	.00	.00	122	.00	---	144	169	181	166	114	15220	91
31	.00	---	121	.00	---	146	---	183	---	112	12184	---
MAX	423	.00	122	147	160	1054	199	362	294	183	24325	8238
MIN	.00	.00	.00	.00	.00	.00	122	154	150	112	114	91
(††)	900.0	901.7	922.4	900.4	899.6	927.2	933.1	930.2	927.5	921.0	1038.7	917.6
(†)	0	0	123	0	0	160	235	194	163	113	9423	93
(‡)	-178	0	+123	-123	0	+160	+75	-41	-31	-50	+9310	-9330

CAL YR 2000 AC-FT() +123
WTR YR 2001 AC-FT() -85

†† Monthend elevation, in feet, at 2400 hours.
† Monthend contents, in acre-feet.
‡ Change in contents, in acre-feet.